CHAMPION

COMMERCIAL ASPEN COOLERS





Models:

75/85 DD	75/85SD
95DD	95SD
10/12DD	10/12SD
14/21DD	14/21SD
CD11/16	CS11/16
CD21	

The Economical & Environmentally-Sound Way to Cool Your Business

Aspen Coolers

Champion Commercial Aspen Cooler Specifications

Champion Cooler's line of commercial evaporative coolers offers an **economical & environmentally-friendly** means of cooling and recirculating air in large facilities where refrigerated air systems would be cost prohibitive.

Using **no harmful chemicals** & much less electricity than traditional air conditioning, evaporative coolers provide the energy efficient cooling alternative.

Champion's Aspen Coolers use a time-tested technology that has been shown to be exceptionally effective in hot, dry climates.

These **American-made** units are made of heavy duty steel and high qualty components. Your maintenance team will appreciate that repair is easily facilitated by the removable louver panels.

All steel components (except the blower wheel, shaft and pulley) are chemically treated and covered with an electrostatically applied polyester finish at a thickness of 1 to 1.5 mil to protect the cooler from scratches and corrosion. This finish meets or exceeds requirements for the following tests:

- 1000-Hour Salt Spray Test ASTM B117
- Abrasion Reisistance Test ASTM 4060-84
- Impact Resistance test ASTM D2794
- 2400-Hour Immersion Test ASTM D870
- Adhesion Test ASTM D3359

Champion Cooler certifies that the evaporative air coolers shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests & procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the Certified Ratings Program.

Down Discharge

Comments: A. Motor, Pulley & Pump sold separately.
B. Motor, Pulley, Belt(s) & Pump sold separately.
C. Motor, Pulley, Pump, Float & Bleed Off sold separately.

MODEL NO.	BHP	MOTOR PART NO.	SPEED	PHASE	VOLTS	AMPS**	SHAFT DIA.	BELT PART NO.
75/85 DD Comment A	3/4	110455 110456 110461	1 2 1	1 1 3	115/208-230 230 208-230/460	13.8/7.6-6.9 6.9 3.5-3.2/1.6	5/8 5/8 5/8	110217
	1	110457 110458 110462-9	1 2 1	1 1 3	115/230 230 208-230/460	16/8 8 4.6-4.2/2.1	5/8 5/8 7/8	110217
95 DD Comment A	1 1/2	110459-1 110463-9	1 1	1 3	115/208-230 208-230/460	20/11-10 6.6-6/3	5/8 7/8	110217
	2	110460-1 110464-9	1 1	1 3	115/208-230 208-230/460	24/13.2-12 7.5-6.8/3.4	7/8 7/8	110217
	3	110465-9	1	3	208-230/460	10.6-9.6/4.8	1 1/8	110218
10/12 DD Comment C	1	110457 110458 110462-9	1 2 1	1 1 3	115/230 230 208-230/460	16/8 8 4.6-4.2/2.1	5/8 5/8 7/8	110231
	1 1/2	110459-1 110463-9	1 1	1 3	115/208-230 208-230/460	20/11-10 6.6-6/3	5/8 7/8	110231
	2	110460-1 110464-9	1 1	1 3	115/208-230 208-230/460	24/13.2-12 7.5-6.8/3.4	7/8 7/8	110231
14/21 DD Comment C	1 1/2	110459 110463-9	1 1	1 3	115/208-230 208-230/460	20/11-10 6.6-6/3	5/8 7/8	110219
	2	110460 110464-9	1 1	1 3	115/208-230 208-230/460	24/13.2-12 7.5-6.8/3.4	7/8 7/8	110219
	3	110465-9	1	3	208-230/460	10.6-9.6/4.8	1 1/8	110219
	5	110466-9	1	3	208-230/460	16.7-15.2/7.6	1 1/8	110219
CD 11/16 Comment B	1	110471 110458 110462-1	2 2 1	1 1 3	115 230 208-230/460	16 8 4.6-4.2/2.1	5/8	70807
	1 1/2	110459-2 110463-9	2 1	1 3	208-230 208-230/460	11-10 6.6-6/3	5/8 7/8	70807 582013
	2	110460-1 110464-9	1 1	1 3	115/208-230 208-230/460	24/13.2-12 7.5-6.8/3.4	7/8	582018
	3	110465-9	1	3	208-230/460	10.6-9.6/4.8	1 1/8	582017
CD 21 Comment B	5	110466-9	1	3	208-230/460	16.7-15.2/7.6	1 1/8	582142

Side Discharge

Comments: A. Motor, Pulley & Pump sold separately.
B. Motor, Pulley, Belt & Pump sold separately.
C. Motor, Pulley, Pump, Float & Bleed Off sold separately.

MODEL NO.	BHP	MOTOR PART NO.	SPEED	PHASE	VOLTS	AMPS**	SHAFT DIA.	BELT PART NO.
75/85 SD Comment A	3/4	110455 110456 110461	1 2 1	1 1 3	115/208-230 230 208-230/460	13.8/7.6-6.9 6.9 3.5-3.2/1.6	5/8 5/8 5/8	110217
	1	110457 110458 110462-9	1 2 1	1 1 3	115/230 230 208-230/460	16/8 8 4.6-4.2/2.1	5/8 5/8 7/8	110217
95 SD Comment A	1 1/2	110459-1 110463-9	1 1	1 3	115/208-230 208-230/460	20/11-10 6.6-6/3	5/8 7/8	110217
	2	110460-1 110464-9	1 1	1 3	115/208-230 208-230/460	24/13.2-12 7.5-6.8/3.4	7/8 7/8	110217
10/12 SD Comment C	1	110457 110458 110462-9	1 2 1	1 1 3	115/230 230 208-230/460	16/8 8 4.6-4.2/2.1	5/8 5/8 7/8	110231
	1 1/2	110459-1 110463-9	1 1	1 3	115/208-230 208-230/460	20/11-10 6.6-6/3	5/8 7/8	110231
	2	110460-1 110464-9	1 1	1 3	115/208-230 208-230/460	24/13.2-12 7.5-6.8/3.4	7/8 7/8	110231
14/21 SD Comment C	1 1/2	110459 110463-9	1 1	1 3	115/208-230 208-230/460	20/11-10 6.6-6/3	5/8 7/8	110219
	2	110460 110464-9	1 1	1 3	115/208-230 208-230/460	24/13.2-12 7.5-6.8/3.4	7/8 7/8	110219
	3	110465-9	1	3	208-230/460	10.6-9.6/4.8	1 1/8	110219
	5	110466-9	1	3	208-230/460	16.7-15.2/7.6	1 1/8	110219
CS 11/16 Comment B	1	581028 581227 581028	2 1 1	1 1 3	115 230 208-230/460	16 8 4.6-4.2/2.1	5/8	70807
	1 1/2	581226 581156	1 1	1 3	208-230 208-230/460	11/10 6.6-6/3	5/8 7/8	70807 582013
	2	110460-1 110464-9	1 1	1 3	115/208-230 208-230/460	24/13.22-12 7.5-6.8/3.4	7/8	582018
	3	110465-9	1	3	208-230/460	10.6-9.6/4.8	1 1/8	582019

**Amperage shown is from National Electric Code. Use amperage on motor nameplate to determine motor protector. Specify components in accordance with comments A, B, & C.

Down Discharge

CFM INCHES STATIC PRESSURE

MODEL NO.	SHEAVE PART NO.	0		0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0	
		CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM
75/85 DD	110308	6074	300	5806	314	5479	330	5144	348	4812	364	4482	381	4132	399	3753	419						
	110279-003							5144	348	4812	364	4482	381	4132	399	3753	419	3342	444				
	110279-003	6685	330	6449	342	6160	357	5854	373	5552	388	5255	403	4951	418	4638	434	4299	452				
	110306-1													4951	418	4638	434	4299	452	3935	473		
	† 110302	6685	330	6449	342	6160	357	5854	373	5552	388	5255	403	4951	418	4638	434	4299	452				
	† 110299													4951	418	4638	434	4299	452	3935	473		
95 DD	110279-003	7653	378	7453	388	7212	400	6949	414	6683	428	6417	441	6158	454	5893	467						
	110306-1									6683	428	6417	441	6158	454	5893	467	5629	481	5357	495	5068	510
	† 110302	7653	378	7453	388	7212	400	6949	414	6683	428	6417	441	6158	454	5893	467						
	† 110299									6683	428	6417	441	6158	454	5893	467	5629	481	5357	495	5068	510
	110299	8424	416	8247	425	8035	436	7802	448	7560	460	7320	473	7078	485	6840	497	6602	509	6363	521	6122	533
	110304	9642	477	9493	484	9315	493	9121	503	8918	513	8706	524	8493	535								
	110300					9315	493	9121	503	8918	513	8706	524	8493	535	8283	546	8071	556	7864	567	7657	577
10/12 DD	110308 † 110309	9225	246	8673	258	8215	274	7607	286	7098	300	6581	314	6038	330								
	110279-003	10575	282	10004	293	9680	306	9213	318	8822	329	8315	342	7906	354								
	110306-1									8822	329	8315	342	7906	354	7372	366	6847	380				
	† 110302	10575	282	10004	293	9680	306	9213	318	8822	329	8315	342	7906	354								
	† 110299									8822	329	8315	342	7906	354	7372	366	6847	380				
	110299	11625	310	11193	320	10793	331	10360	342	9986	354	9551	364	9186	376	8755	386	8386	398	7904	409	7434	423
14/21 DD	110286 † 110290	13245	214	12690	224	11955	236	11121	248	10415	260	9789	272	9032	285	8016	300						
	110290	14607	236	14106	245	13520	255	12692	266	12093	278	11388	288	10728	298								
	110289									12093	278	11388	288	10728	298	10042	310	9337	323	8694	339		
	110291	16711	270	16299	278	15726	285	15138	295	14557	306	13897	315	13379	325	12821	334	12246	343	11583	353	11002	363
	110291	19806	320	19481	327	19043	333	18606	340	18088	348	17544	357	16983	365								
	110304-1									18088	348	17544	357	16983	365	16558	374	16079	382	2055	389	15110	397
CD 11/16	583022	8245	230	7600	249	7020	272	6235	276	5745	320	5245	338	4285	354	3810	366	3240	380	4830	392	1355	406
	583022	10555	265	10200	278	9660	291	9210	303	8800	318	8200	333	7380	344	6650	355	6035	368	6670	380	4525	375
	110279-003 † 110302	11360	280	10925	292	10360	306	10190	317	9820	329	9435	344	8785	355	8510	364	7650	375	9925	285	6015	393
	583094	13270	326	12730	332	12530	342	12000	356	11950	369	11275	378	10830	391	10645	406	10440	423	11935	434	9815	445
CD 21	110304-1	17000	420	16600	435	16100	450	15500	465	14700	480	13600	370	13155	521	12970	532	12765	542	11935	553	11070	564

Side Discharge

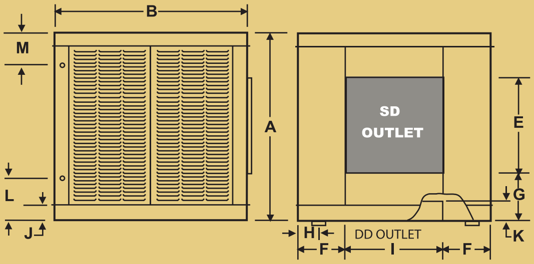
CFM INCHES STATIC PRESSURE

MODEL NO.	SHEAVE PART NO.	0		0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0	
		CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM
75/85 SD	110308	5905	317	5670	330	5405	342	5110	355	4795	369	4456	385	4089	403								
	110279-003							5110	355	4795	369	4456	385	4089	403	3705	425	3302	451				
	110279-003	6498	349	6289	360	6054	372	5799	383	5523	395	5233	408	4922	422	4592	439	4245	458				
	110306-1													4922	422	4592	439	4245	458	3882	480		
	† 110302	6498	349	6289	360	6054	372	5799	383	5523	395	5233	408	4922	422	4592	439	4245	458				
	† 110299													4922	422	4592	439	4245	458	3882	480		
95 SD	110306-1 110299	6868	420	6724	424	6572	429	6411	436	6246	443	6071	452	5885	463	5683	474	5464	487	5227	501	4965	516
	110299	7558	462	7429	466	7291	470	7148	475	7002	482	6850	489	6688	497	6522	507	6345	517	6156	528	5952	540
10/12 SD	110308 † 110309	8567	261	8052	275	7595	287	7140	299	6659	313	6132	328	5557	346								
	110279-003	9807	299	9347	311	8939	322	8544	332	8144	343	7729	354										
	110306-1							8544	332	8144	343	7729	354	7282	367	6805	382	6274	399				
	†110302	9807	299	9347	311	8939	322	8544	332	8144	343	7729	354										
	†110299							8544	332	8144	343	7729	354	7282	367	6805	382	6274	399				
	110299	10794	329	10374	340	9994	350	9630	360	9269	369	8908	379	8522	390	8130	401	7704	414				
	110307-1													8522	390	8130	401	7704	414	7250	429	6753	445
14/21 SD	110286 †110290	12386	226	11713	237	11083	247	10451	257	9785	267	9067	279	8284	294	7427	311						
	110290	13633	249	13016	259	12439	268	11868	277	11281	286	10674	296	10025	307								
	110289							11868	277	11281	286	10674	296	10025	307	9313	320	8557	334	7758	351		
	110291	15606	285	15063	294	14551	302	14050	310	13553	318	13042	325	12522	334	11969	343	11390	353	10777	364	10133	376
	110291	18502	338	18044	346	17598	353	17167	360	16749	366												
	110304-1			18044	346	17598	353	17167	360	16749	366	16334	372	15906	379	15478	386	15035	393	14581	400	14115	408
CS 11/16	583022	7966	235	7343	257	6783	275	6063	289	5578	367	5092	332	4160	350	3699	366	3146	368	1995	385	NR	
	583022	10200	271	9725	283	9315	297	8920	308	8370	321	7650	337	7120	399	6520	360	5905	373	4700	387	4295	399
	110279-003 †110302	10970	296	10470	303	10185	314	9710	327	9300	340	9000	354	8770	364	8315	376	7345	385	6290	398	5820	412
	583094	12630	398	12330	351	11850	357	11535	366	11405	323	11180	384	10805	396	10415	407	10120	417	9610	465	9545	435

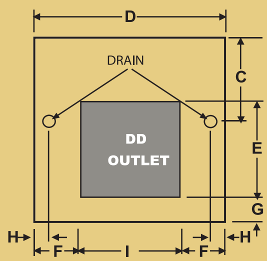
Performance shown in the Performance Data Tables above is for type B - free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. † These sheaves have a 7/8 bore for use with motors with 7/8 shaft.

General Specifications

10/12 SD & DD
14/21 SD & DD
CS & CD 11/16
& CD21



SIDE VIEW FRONT VIEW



BOTTOM VIEW

Side & Down Discharge Units Cabinet Dimensions (in inches)

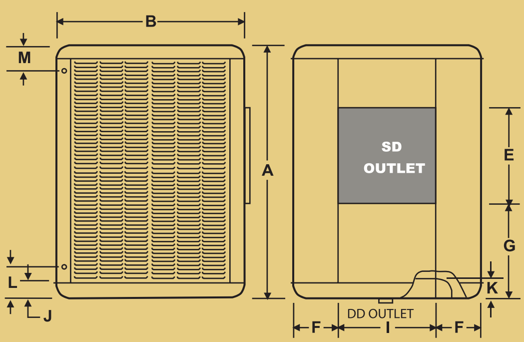
MODEL NO.	CABINET A	CABINET B	CABINET D	ELECT. M	DUCT OPENING E	DUCT OPENING I	DUCT LOCATION G	DUCT LOCATION F	DRAIN LOCATION H	DRAIN LOCATION C	WATER SERVICE L	J	K
75/85 DD	53 5/8	41 1/4	41 1/4	4 1/2	21 3/4	21 3/4	4 7/8	9 3/4	5 3/4	20 5/8	5 7/8	4	4 3/8
95 DD	53 5/8	41 1/4	41 1/4	4 1/2	21 3/4	21 3/4	4 7/8	9 3/4	5 3/4	20 5/8	5 7/8	4	4 3/8
CD 11/16/21	60	56	56	5	31 3/4	31 3/4	8 1/8	12	28	4	7	4 5/8	5 3/4
10/12 DD	53 5/8	50	50	7 9/16	26 7/8	26 7/8	4	11 9/16	4	25	7 9/16	4	4 9/16
14/21 DD	61 1/4	62	62	7 9/16	31 3/4	31 3/4	7	15 1/8	4	31	7 9/16	4	4 9/16
75/85 SD	53 5/8	41 1/4	41 1/4	4 1/2	21 3/4	21 3/4	17	9 3/4	8 1/2	16 1/2	5 7/8	4	N/A
95 SD	53 5/8	41 1/4	41 1/4	4 1/2	21 3/4	21 3/4	17	9 3/4	8 1/2	16 1/2	5 7/8	4	N/A
CS 11/16	60	56	56	4 1/2	31 3/4	31 3/4	22	12	28	4	7	4 5/8	N/A
10/12 SD	53 5/8	50	50	7 9/16	26 7/8	26 7/8	20 1/2	11 9/16	4	25	7 9/16	4	N/A
14/21 SD	61 1/4	62	62	7 9/16	31 3/4	31 3/4	22 1/2	15 1/8	4	31	7 9/16	4	N/A

Side & Down Discharge Units General Specifications (in inches)

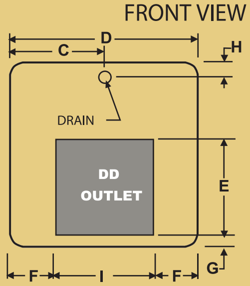
MODEL NO.	ASPEN PADS	EFFECTIVE PAD AREA	BLOWER WHEEL DIA.	BLOWER WHEEL WID.	BLOWER WHEEL SHAFT	BLOWER PULLEY PITCH	WEIGHT SHIP [1]	WEIGHT OPERATING [2]
75/85 DD	(8)24x36	5916	21 7/8	19 1/2	1	14	298	398/419
95 DD	(8)24x36	5916	21 7/8	19 1/2	1	14	298	430/437/473
CD 11/16	(8)24x56	8250	25 1/4	23	1 3/16	15	675	1045
CD 21	(8)24x56	8250	25 1/4	23	1 3/16	15	750	1120
10/12 DD	(16)22x23 1/2	6776	25 1/4	23	1 3/16	18	470	651/659/664
14/21 DD	(16)28x27	10416	29 1/8	26 3/4	1 3/16	18.4 (2 Groove)	666	933/938/950/965
75/85 SD	(6)24x36	4437	21 7/8	19 1/2	1	14	276	451/455
95 SD	(6)24x36	4437	21 7/8	19 1/2	1	14	276	466/473
CS 11/16	(6)24x36	6187	25	25	1 3/16	15	660	1030
10/12 SD	(12)22x23 1/2	5082	25 1/4	23	1 3/16	18	462	718/726/731
14/21 SD	(12)28x27	7812	29 1/8	26 3/4	1 3/16	18.4 (2 Groove)	662	1037/1042/1054/1069

1. Shipping weight is unit and box. (Motor shipped separately).
2. Operating weight is with motor installed and water at proper level.

75/85 SD & DD
95 SD & DD



SIDE VIEW FRONT VIEW



BOTTOM VIEW

Typical Water Usage at "0" Static

MODEL NO.	H.P.	GPH	MODEL NO.	H.P.	GPH	MODEL NO.	H.P.	GPH
75/85 DD	3/4	18	CD 11/16	2	39	10/12 DD	2	35
75/85 DD	1	20	CD 11/16	3	48	14/21 DD	1 1/2	40
95 DD	1 1/2	23	CD 21	5	60	14/21 DD	2	44
95 DD	2	25	10/12 DD	1	28	14/21 DD	3	50
95 DD	3	29	10/12 DD	1 1/2	32	14/21 DD	5	60
CD 11/16	1	28						
CD 11/16	1 1/2	36						
75/85 SD	3/4	18	CS 11/16	1 1/2	32	10/12 SD	2	32
75/85 SD	1	19	CS 11/16	2	34	14/21 SD	1 1/2	39
95 SD	1 1/2	22	CS 11/16	3	48	14/21 SD	2	43
95 SD	2	25	10/12 SD	1	26	14/21 SD	3	47
CS 11/16	1	28	10/12 SD	1 1/2	29	14/21 SD	5	58

**Water usage varies as to the unit location and temperature.

Pump Specifications

MODEL NUMBERS	UNIT	VOLTS	HZ	AMPS	WATTS	RPM	H.P.	PH	GPM	HEAD
110467-1	75/85 & 95	115	60	1.2	73	3000	1/50	1	3.8	5 FT.
110468-1	75/85 & 95	230	60	0.8	77	3000	1/50	1	3.8	5 FT.
110467	10/12, 14/21 & 11/16/21	115	60	1.2	73	3000	1/40	1	4.6	5 FT.
110468	10/12, 14/21 & 11/16/21	230	60	0.8	77	3000	1/40	1	4.6	5 FT.

Pump: High performance, thermally protected, UL and City of Los Angeles listed.

MADE IN U.S.A.

CHAMPION
www.championcooler.com
5800 Murray St.
Little Rock, AR 72209

CCAB - SEP 2008